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SCHEMATIC DIAGRAMS

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INTRODUCTION

This service manual provides service instructions for the V41C, V41 and V41+ chassis types. The specific models for each chassis type, dimensions and weight are listed below. Service personnel should read this manual thoroughly before servicing these chassis.

MODEL	CHASSIS	HEIGHT	WIDTH	DEPTH	WEIGHT	POWER USAGE
WD-60C9	V41C	36.7"	53.9"	14.4"	64.9 lbs	260W
WD-60737	V41	36.7"	53.9"	14.4"	64.9 lbs	260W
WD-65C9	V41C	39.5"	58.2"	15.3"	72.2 lbs	260W
WD-65737	V41	39.5"	58.2"	15.3"	72.2 lbs	260W
WD-65837	V41+	39.5"	58.2"	15.3"	72.2 lbs	260W
WD-73C9	V41C	43.6"	65.2"	17.5"	92.84 lbs	260W
WD-73737	V41	43.6"	65.2"	17.5"	92.84 lbs	260W
WD-73837	V41+	43.6"	65.2"	17.5"	92.84 lbs	270W
WD-82737	V41	48.5"	73.2"	22.7"	139.7 lbs	270W
WD-82837	V41+	48.5"	73.2"	22.7"	139.7 lbs	270W

This service manual includes:

1. Assembly and disassembly instructions for cabinet and chassis components.
2. Servicing of the Lenticular Screen and Fresnel Lens.
3. Servicing printed circuit boards (PCBs).
4. Electrical and Mechanical adjustments.
6. Chip parts replacement procedures.
7. Circuit block diagrams.

The parts list section of this service manual includes:

1. Cabinet and screen parts.
2. Electrical parts.

Schematic and block diagrams of the above listed models are included in this service manual for better understanding of the circuitry.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have special safety characteristics are identified in this service manual.

Electrical components having such features are identified by shading on the schematic diagram and parts list of this service manual. **The replacement for any safety part should be identical in value and characteristics.**

The PWBs used in this chassis are constructed using Lead-Free Solder. **When servicing use only recommended Lead-Free Solder. Refer to the section "Using Lead Free Solder."**

SAFETY PRECAUTIONS

NOTICE: Observe all cautions and safety related notes located inside the receiver cabinet and on the receiver chassis.

WARNING:

1. Operation of this receiver outside the cabinet or with the cover removed presents a shock hazard from the receiver's power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment.
2. When service is required, observe the original lead dress. Where a short-circuit has occurred, replace those components that indicate evidence of overheating.

SAFETY PRECAUTION

To protect your eyes, do not look directly into the lamp, or light coming directly from the lamp, lens or mirror.

Leakage current check

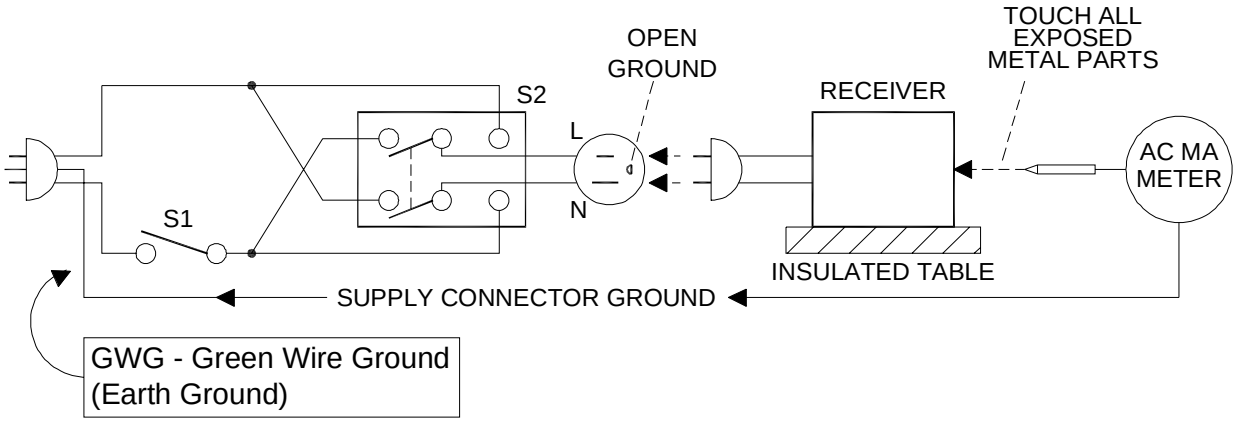
Before returning the receiver to the customer, it is recommended that leakage current be measured according to the following methods.

1. Cold Check

With the alternating current (AC) plug removed from the AC source, place a jumper across the two AC plug prongs. Connect one lead of an ohm meter to the AC plug and touch the other lead to each exposed metal part (i.e. antennas, handle bracket, metal cabinet, screw heads, metal overlay, control shafts, etc.), particularly any exposed metal part that has a return path to the chassis. The resistance of the exposed metal parts having a return path to the chassis **should be a minimum of 1Meg Ohm**. Any resistance below this value indicates an abnormal condition and requires corrective action.

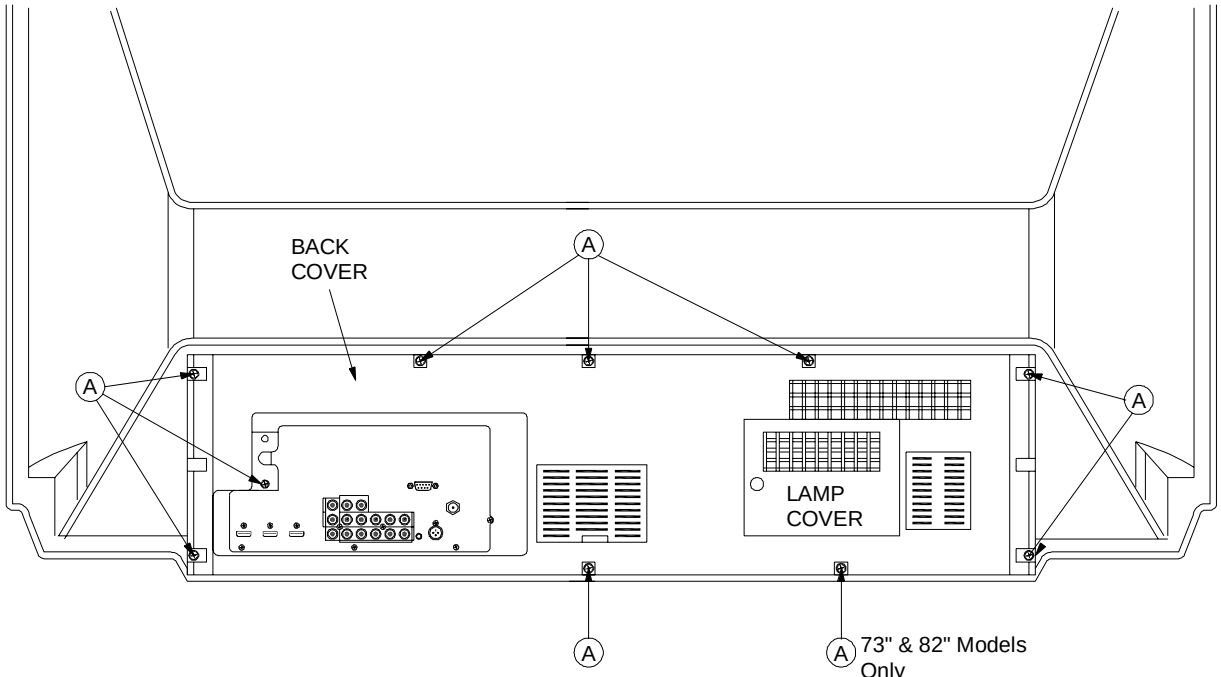
2. Hot Check ...Use the circuit shown below to perform the hot check test.

1. Keep switch S1 open and connect the receiver to the measuring circuit. Immediately after connection, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2.
2. Close switch S1, energizing the receiver. Immediately after closing switch S1, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2. Repeat the current measurements of items 1 and 2 after the receiver has reached thermal stabilization. **The leakage current must not exceed 0.5 milliampere (mA).**



DISASSEMBLY

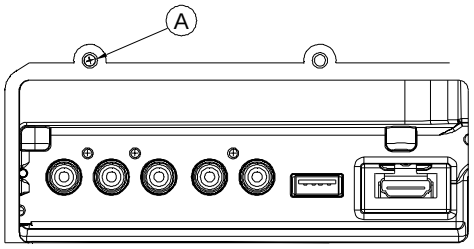
BACK COVER REMOVAL



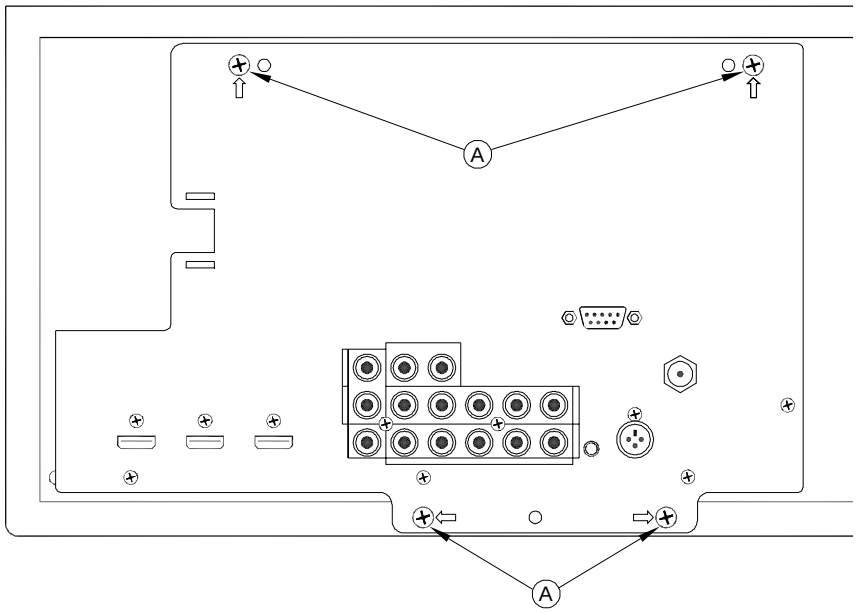
Back Cover Removal

1) Remove screws (A) from the back cover.
2) Remove the back cover from the TV.

CHASSIS REMOVAL & DISASSEMBLY



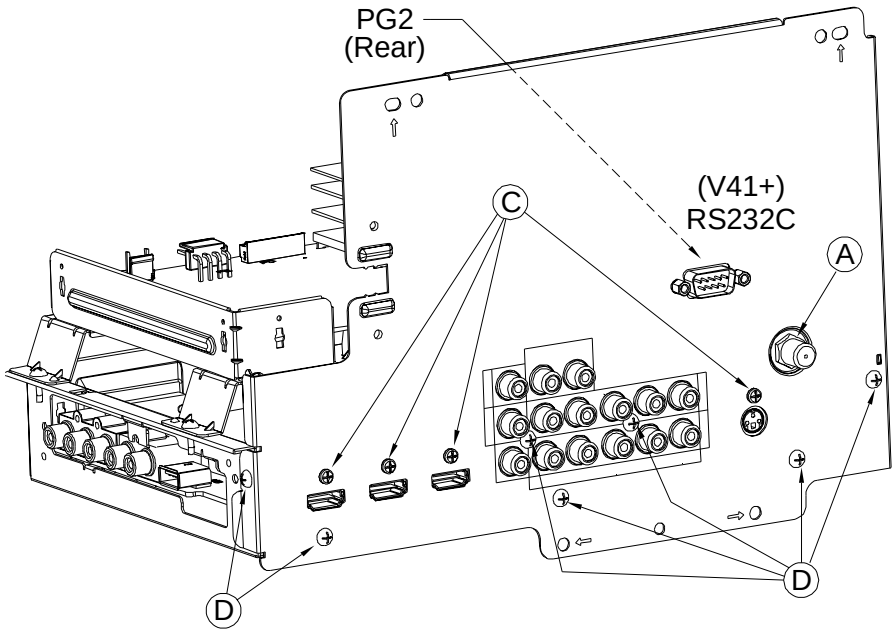
Side View



Chassis Removal

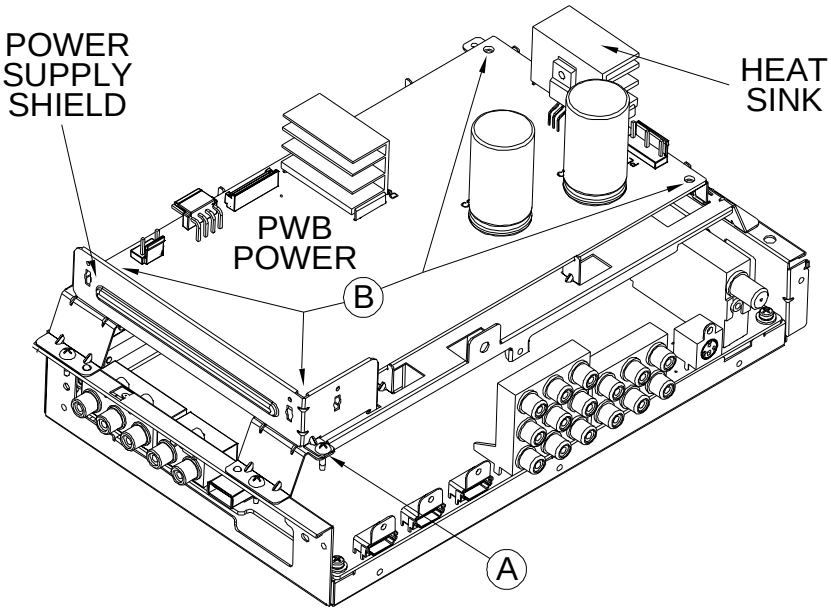
1) Remove five screws (A), one side, four rear.
2) Disconnect all cables connecting to the chassis.
3) Slide the chassis out of the cabinet.

CHASSIS REMOVAL & DISASSEMBLY (Continued)



Rear Terminal Cover Removal

1) Remove nut (A) from the ANT input.
2) Disconnect connector PG2 from the rear of the RS232C assembly (V41+ only).
3) Remove screws (C) and (D).
4) Remove the Terminal Cover from the chassis.



Power Supply Shield Removal

1) Remove screw (A).
2) Remove the Power Supply Shield from the chassis.

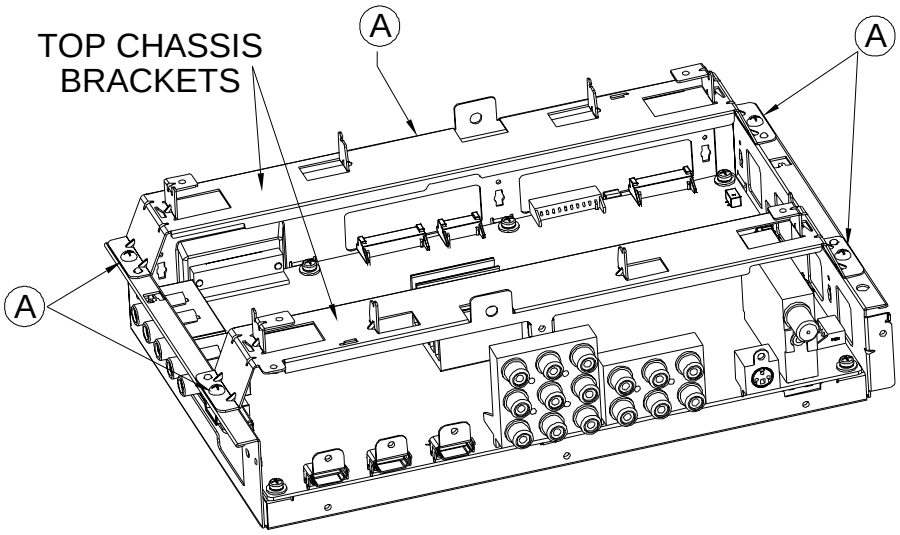
PWB-POWER Removal

1) Remove screws (B).
2) Disconnect all cables from the PWB-POWER.
3) Lift the PWB-POWER from the chassis.

PWB-POWER Installation

NOTE: The PWB-POWER should be re-installed so the Heat Sink is opposite the Power Supply Shield.

CHASSIS REMOVAL & DISASSEMBLY (Continued)



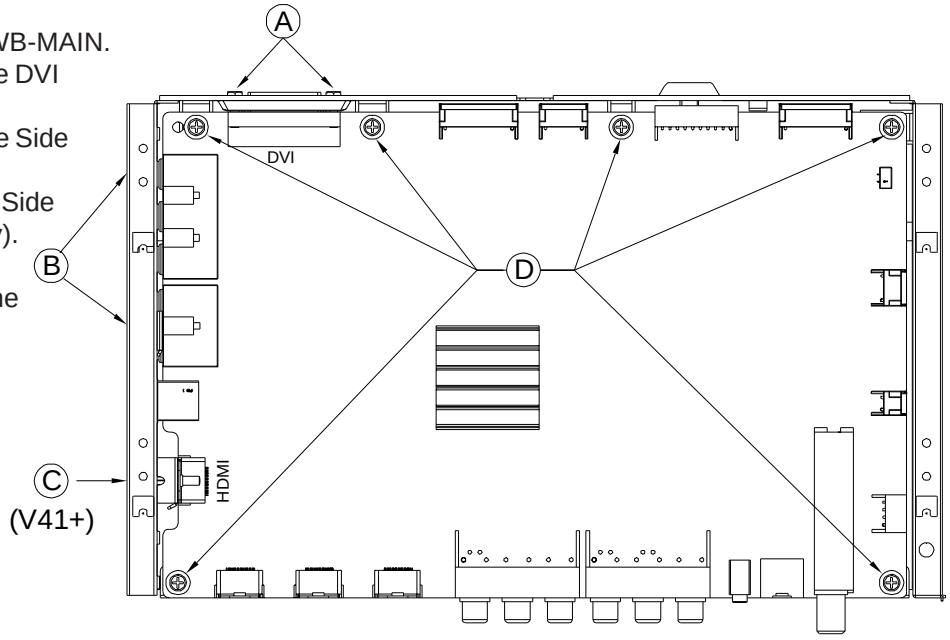
Top Chassis Brackets Removal

NOTE: Removal of the Power Supply Shield and PWB-POWER is not required to remove the Top Chassis Brackets.

1) Remove screws (A).
2) Disconnect all cables from the PWB-POWER.
3) Lift the Top Chassis Brackets from the chassis.

PWB-MAIN Removal

1) Disconnect all cables to PWB-MAIN.
2) Remove screws (A) from the DVI connector.
3) Remove screws (B) from the Side Terminals.
4) Remove screw (C) from the Side HDMI connector (V41+ only).
5) Remove screws (D).
6) Lift the PWB-MAIN out of the chassis.

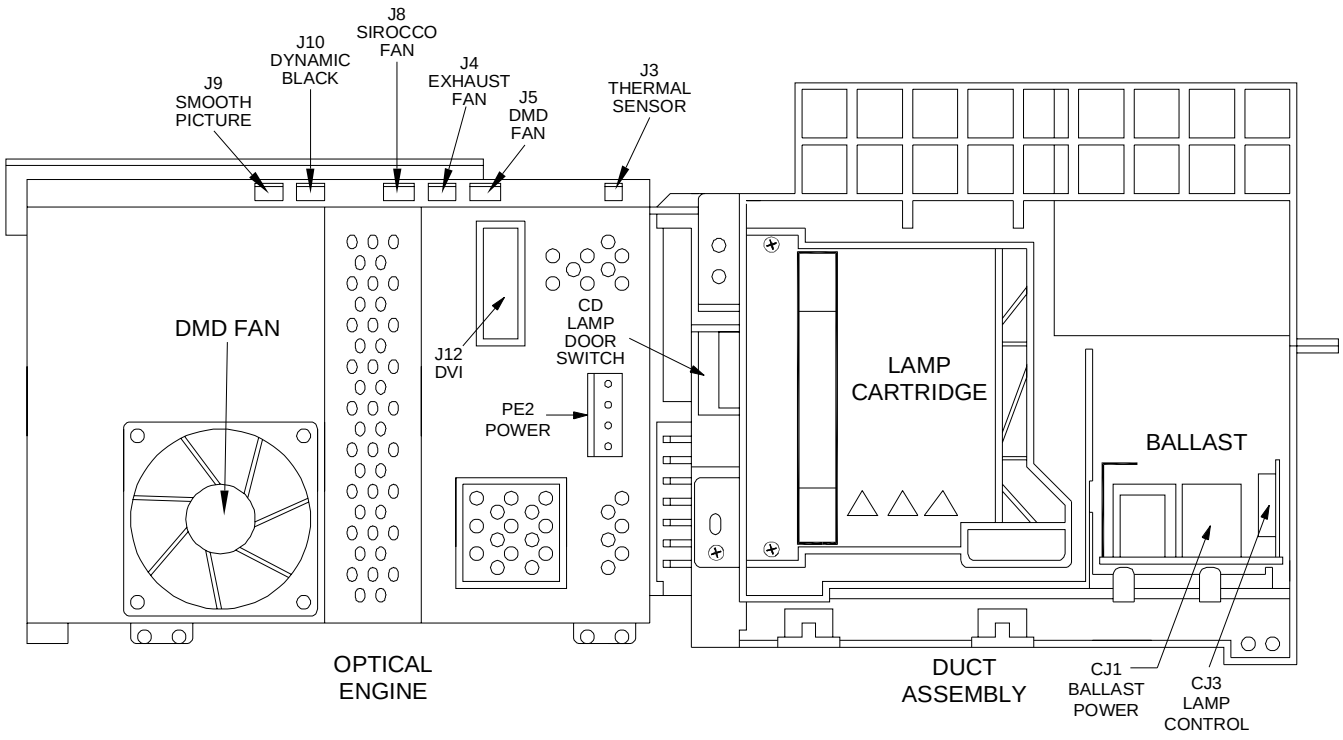


PWB-MAIN Installation

1) Install screws (A) (B) and (C) first.
2) Then install screws (D).
3) Perform “Restore Engine Data From Backup” (See Data Transfer in Service Adjustments section).
4) Perform “Restore Geometry Data From Backup” (See Data Transfer in Service Adjustments section).

OPTICAL ENGINE ASSEMBLY

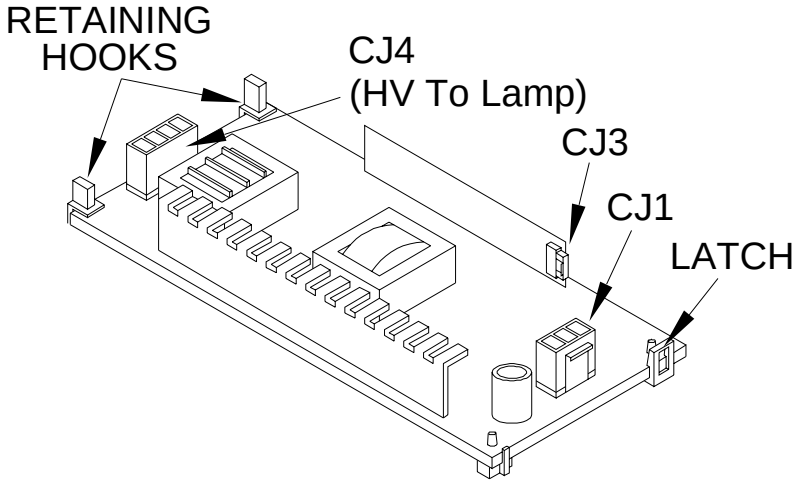
OPTICAL ENGINE ASSEMBLY - COMPONENT AND CONNECTOR LOCATIONS (Rear View)



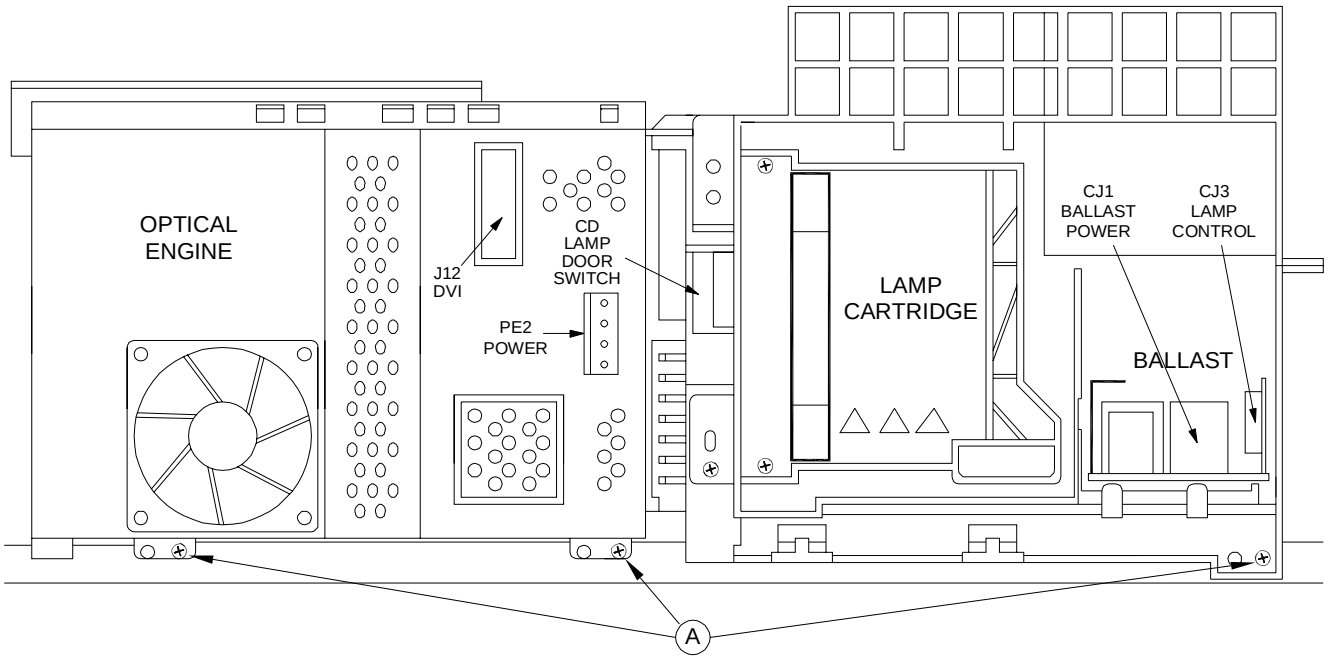
PWB-BALLAST REPLACEMENT

Note: To remove the PWB-Ballast, it is not necessary to remove the Engine or Lamp Cartridge.

1) Release the Latch to lift the PWB-BALLAST from the mounting bracket.
2) Slide the PWB-Ballast out of the Engine Assembly.
3) Disconnect connectors CJ1, CJ3 and CJ4, the HV Lamp connector.
4) To reinstall, first connect the connectors. Then slide the PWB under the Retaining Hooks. Then press the rear edge of the PWB down onto the guide pins to engage the latch.



OPTICAL ENGINE REPLACEMENT



OPTICAL ENGINE ASSEMBLY REMOVAL

1) Remove 3 screws (A) from the Optical Engine.
2) Disconnect all cables to the Optical Engine Assembly.
3) Slide the Optical Engine assembly out of the cabinet.

DUCT ASSEMBLY REMOVAL

Upper Duct Assembly Removal Procedure

1) Loosen two screws (A) and remove the Lamp Cartridge.
2) Disconnect the Exhaust and Sirocco Fan Connectors (J4 and J8) from the back of the Engine and loosen the wiring harnesses from the looms, refer to previous page for connector locations.
3) Remove screw (B) from the top of the upper duct and release the latches shown in *Figure 2.*
4) Remove the Upper Duct assembly from the Optical Engine.

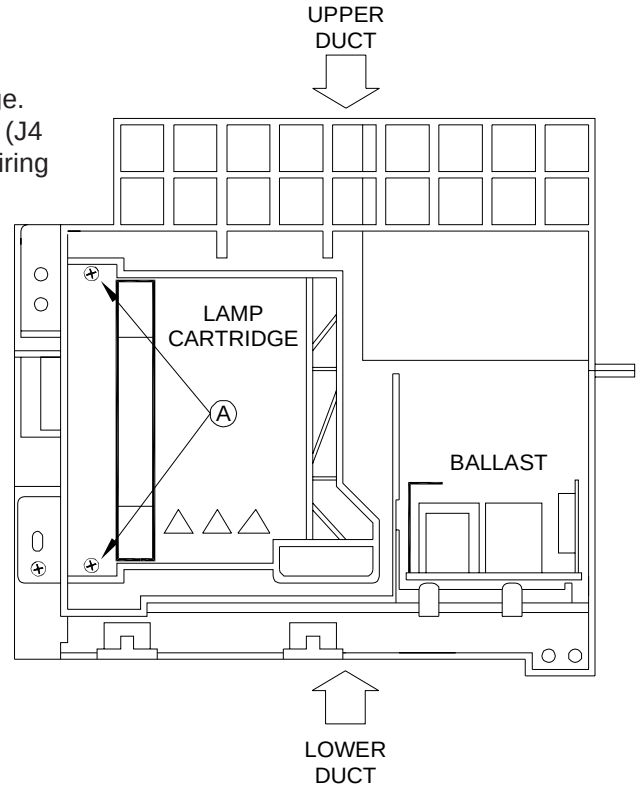


Figure 1: Duct Assembly (Rear View)

OPTICAL ENGINE REPLACEMENT (Continued)

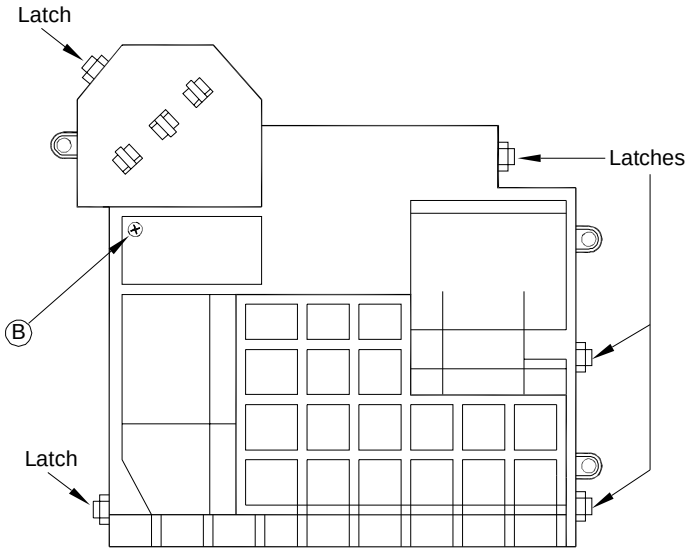


Figure 2: Duct Assembly (Top View)

DUCT INTERIOR COMPONENTS

1) *Figure 3* shows the Duct Interior Components.
2) The Upper Duct must be removed to replace the Lamp Door Switch PWB, Sirocco Fan, Exhaust Fan and Thermal Sensor (1 screw).
3) When replacing the Engine, transfer the Duct Interior Components from old Engine to the new Engine.

Note: There are three Exhaust Fan Holders, one on the top and two on the bottom of the Exhaust Fan.
Note: The Exhaust Fan must be installed so the Label is facing inside the Duct.
Note: The Sirocco Fan must be installed so the Label is facing upwith the Flanges aligned onto the Guide Pins.

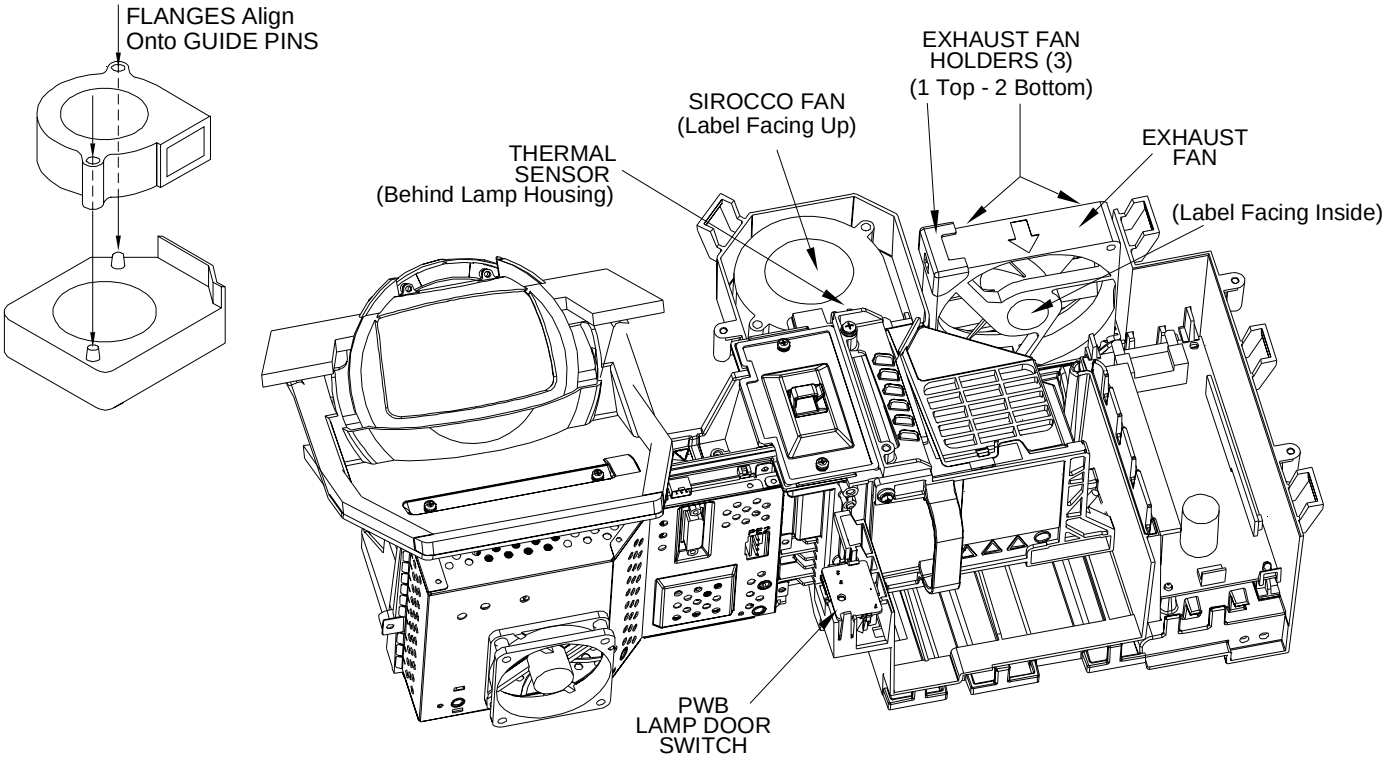


Figure 3: Lower Duct (Top View)

OPTICAL ENGINE REPLACEMENT (Continued)

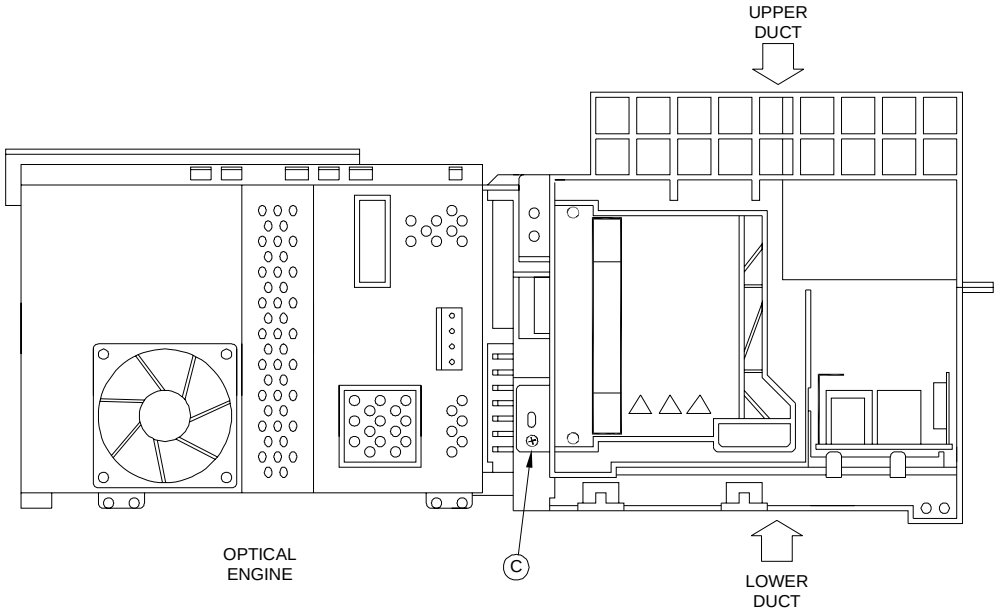


Figure 4: Lower Duct Rear Mounting Screw

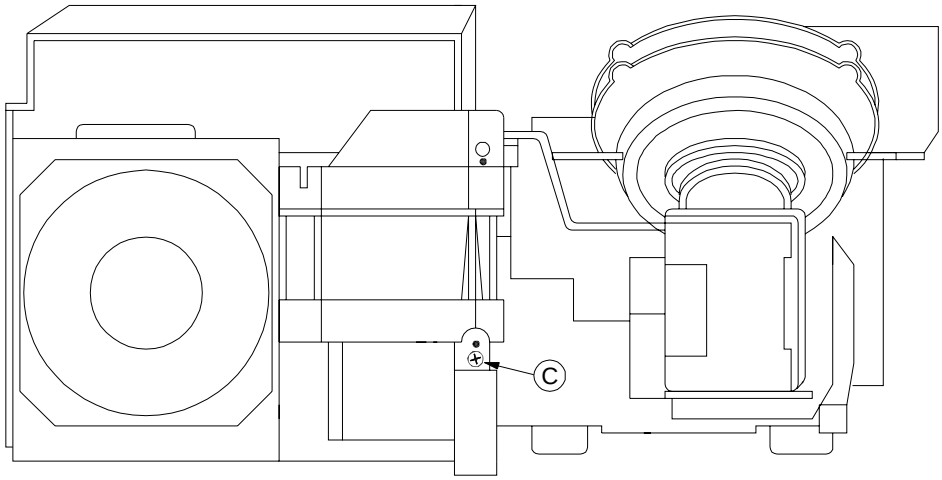


Figure 5: Lower Duct Front Mounting Screw

LOWER DUCT REMOVAL

1) Remove Upper Duct, Fans, Fan Holders, Thermal Sensor and Lamp Cartridge. See previous page.
2) Remove the 2 screws (**C**) one in front and one in the rear of the lower duct, refer to *Figures 4 and 5.*
3) Carefully remove the lower duct from the Engine.

ENGINE Replacement (Reverse the Removal Procedure)

1) Install Duct Assembly on the new Engine.
2) Remove the Protective Lens Cover from the face of the Lens and place it on the old Engine.
3) Install the Engine Assembly in the cabinet.
4) After a new Engine is installed, perform the “Restore Index Delay” and “Save Engine and Geometry Setting to Backup” procedures as described in the Data Transfer section of the Service Adjustments.
5) If needed. perform the Horizontal and Vertical Centering Adjustment and Manual Geometry Alignment described in Service Adjustments.

COLOR WHEEL REPLACEMENT

SYMPTOMS

- Noise (Bad Motor Bearing)
- Solarized Picture NOTE: Before replacing the Color Wheel, check the Index Delay Adjustment.

COLOR WHEEL REPLACEMENT PROCEDURE

CAUTION: This procedure should be performed in a dust free environment.
Any dust entering into the color wheel chamber can cause abnormalities in the picture.

1) Remove Engine Assembly and cover the projection lens to protect it from scratches.
2) Remove the TOP DUCT.
3) Remove the 2 screws (A) shown in *Figure 1*.
4) Disconnect the 2 connectors J6 & J7 shown in *Figure 1*.
5) Lift the top cover off of the color wheel chamber.

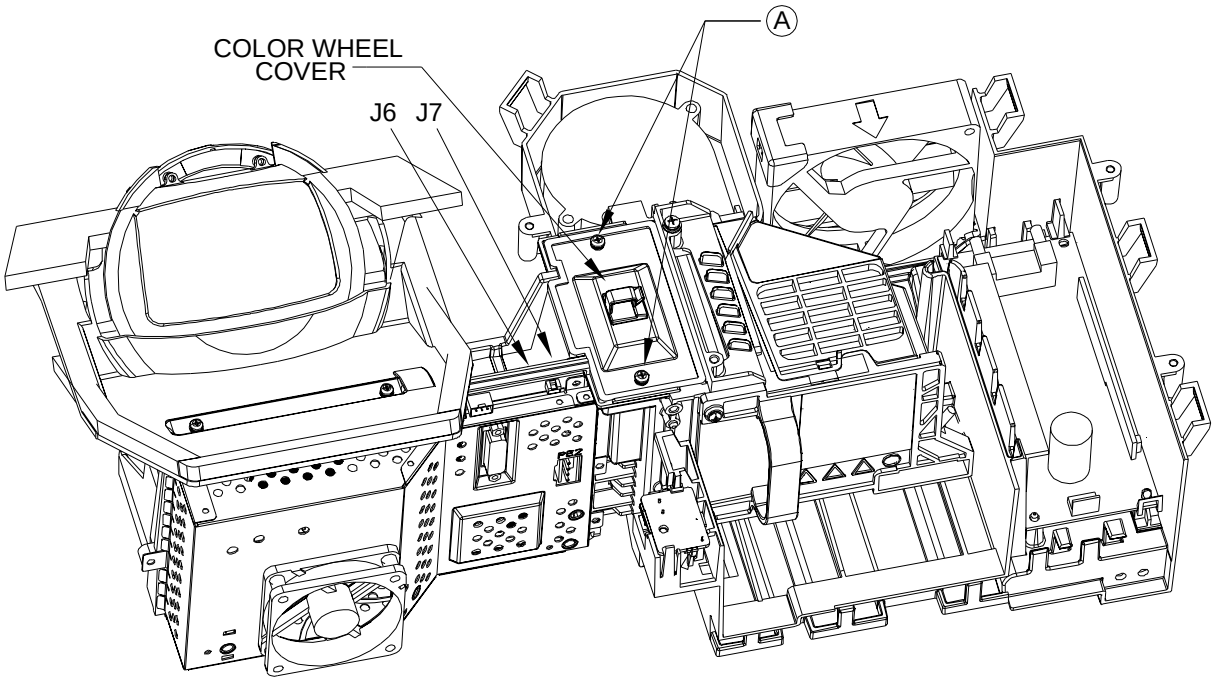


Figure 1: Color Wheel Cover and Connectors

6) Remove 3 screws (B) shown in *Figure 2.*
7) Use the Handle to lift the Color Wheel from the chamber.
8) For installation, reverse the procedure above.

CAUTION: Use care to prevent scratching the Color Wheel.
NOTE: Do not twist the ribbon cable to J6 (the shiny silver contacts must be facing up).

9) After re-assembly, perform the Index Delay Adjustment described in the Service Adjustments section.

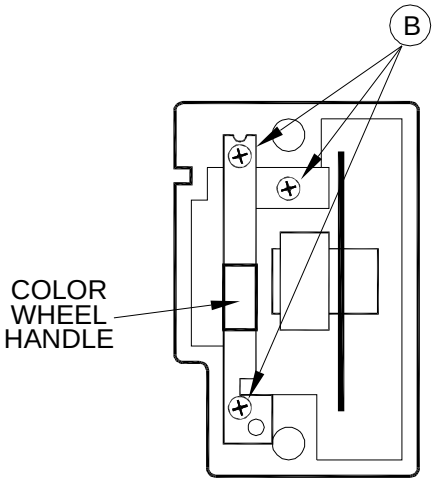


Figure 2: Color Wheel

1 of 13 BLOCK

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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6 of 13	MAIN-04	DM-CORE
7 of 13	MAIN-05	DM-MEMORY
8 of 13	MAIN-06	ROM / EBI
9 of 13	MAIN-07	ASIC
10 of 13	MAIN-08	TMDS
11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

2 of 13	PWB-POWER

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WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

3 of 13	MAIN-01	DC-DC / JACK

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WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

4 of 13	MAIN-02	TUNER / IO

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WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

5 of 13	MAIN-03	HDMI

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WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

6 of 13	MAIN-04	DM-CORE

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

7 of 13	MAIN-05	DM-MEMORY

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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8 of 13	MAIN-06	ROM / EBI
9 of 13	MAIN-07	ASIC
10 of 13	MAIN-08	TMDS
11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

8 of 13	MAIN-06	ROM / EBI

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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8 of 13	MAIN-06	ROM / EBI
9 of 13	MAIN-07	ASIC
10 of 13	MAIN-08	TMDS
11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

9 of 13	MAIN-07	ASIC

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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8 of 13	MAIN-06	ROM / EBI
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10 of 13	MAIN-08	TMDS
11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

10 of 13	MAIN-08	TMDS

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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8 of 13	MAIN-06	ROM / EBI
9 of 13	MAIN-07	ASIC
10 of 13	MAIN-08	TMDS
11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

11 of 13	MAIN-09	AUDIO

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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9 of 13	MAIN-07	ASIC
10 of 13	MAIN-08	TMDS
11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

12 of 13	MAIN-10	MICRO

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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9 of 13	MAIN-07	ASIC
10 of 13	MAIN-08	TMDS
11 of 13	MAIN-09	AUDIO
12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+

13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVER THROUGH IMPROPER SERVICING.

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12 of 13	MAIN-10	MICRO
13 of 13	MISC PWBs	Control, LED, Preamp, SW-Lamp, RS232, SBL

Model	Chassis
WD-60C9	V41C
WD-65C9	V41C
WD-73C9	V41C
WD-60737	V41
WD-65737	V41
WD-73737	V41
WD-82737	V41
WD-65837	V41+
WD-73837	V41+
WD-82837	V41+